APPENDIX 13 CLOSURE COST ESTIMATE

FACILITY SUMMARY

Facility Name:

KW PLASTICS OF

Facility Sequence:

1

Facility EPA ID: CAD982435026

UNIT COST ESTIMATES

	Unit Name	Number of Units	Cost To Close
1.	Container Storage Areas		\$0
2.	Tank Systems	3	\$350,753
3.	Surface Impoundments		\$0
4.	Waste Piles		\$0
5.	Land Treatment		\$0
6.	Landfills		\$0
7.	Incinerators and BIFs		\$0
8.	Drip Pads		\$0
9.	Containment Buildings		\$
10.	Injection Wells		\$
11.	Total Closure Costs		\$350,75
12.	Post-Closure Care		\$
13.	User Defined Additional Costs		

INVENTORY - Page 1 of 3

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1 Form Sequence: 1

1.A	Type of tank system	aboveground	
1.B	Height or length of tank	0 ft	
1.C	Diameter of tank	o ft	
1.D	Maximum permitted capacity of the tank	14,031 gal	
1.E	Total length of ancillary piping	936.0 ft	
1.F	Nominal size of ancillary piping	6.00 in	ing and the second seco
1.G	Maximum capacity of ancillary piping		1,404 ga
1.H	Maximum capacity of tank and ancillary pipin	g	15,435 ga
2 SURI	FACE AREA OF TANK SYSTEM		
	Surface area of tank	1,288.3 ft ²	

INVENTORY - Page 2 of 3

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1

3 VOLUI	ME OF TANK SYSTEM TO BE REMOVED		
3.A	Volume of Tank System to be Removed		1,875.8 ft ³
3.B	Volume of Tank System to be Removed in yd	3	69.5 yd ³
4 SURF	ACE AREA OF SECONDARY CONTAINMENT SY	STEM	
4.A	Length	76.5 ft	
4.B	Width	28.8 ft	Programme of the control of the cont
4.C	Surface Area of Secondary Containment System Pad		2,203.2 ft ²
4.D	Surface Area of Secondary Containment Syst	em Pad in yd ²	244.8 yd ²
5 VOLU	JME OF SECONDARY CONTAINMENT SYSTEM		
5.A	Thickness	0.75 ft	
5.B	Volume of Secondary Containment Pad		61.2 yd ³
6 SUR	FACE AREA OF SECONDARY CONTAINMENT S	YSTEM BERM	
6.A	Total Length	152.5 ft	
6.B	Height	3.00 f	t
6.C	Surface Area of Secondary Containment System Berm		457.5 ft ²
6.D	Surface Area of Secondary Containment Sys	tem Berm in yd ²	50.8 yd ²

INVENTORY - Page 3 of 3

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1

7 VOLUN	VOLUME OF SECONDARY CONTAINMENT SYSTEM BERM			
7.A	Thickness	0.50 ft		
7.B	Volume of Secondary Containment System E	erm	8.5 yd ³	
8 SURF	ACE AREA OF OTHER STRUCTURES IN SECO	NDARY CONTAINMENT	SYSTEM	
8.A	Surface Area of Other Structures		80.0 ft ²	
8.B	Surface Area of Other Structures in yd ²		8.9 yd ²	
9 VOLU	ME OF OTHER STRUCTURES IN SECONDARY	CONTAINMENT SYSTE	EM	
9	Volume of Other Structures		2.4 yd ³	
10 VOLU	JME OF CONTAMINATED SOIL TO BE REMOV	ED		
10.A	Length	0.0 ft		
10.B	Width	0.0 ft		
10.C	Depth	0.00 ft	de la companya de la	
10.D	Volume of Contaminated Soil to be Remove	d	0.0 ft ³	
10.E	Volume of Contaminated Soil to be Remove	ed in yd ³	0.0 yd ³	

Forced ancillary piping dimensions to produce approximately 10% of tank volume as maximum capacity of ancillary piping.

Tank System 1 and 3 includes Tank 1, Tank 3, Storm Water Collection Sump, Decontamination Water Collection Sump equals 300 gallons and Decontamination Water Collection Sump equals 337 gallons.

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1

	Activity	Worksheet Number	Cost
1.	Removal of Waste	TS-3	\$345
2.	Tank System Purging (ignitable wastes only)	TS-4	\$0
3.	Flushing the Tank and Piping	TS-5	\$0
4.	Excavation, Disassembly, and Loading	TS-6	\$7,325
5	Demolition and Removal of Containment System	TS-7	\$0
6.	Removal of Soil	TS-8	\$0
7	Backfill and Grading	BF-1	\$0
8.	Decontamination	DC-1	\$9,229
9.	Sampling and Analysis	SA-2	\$168
10.	Monitoring Well Installation	MW-1	\$0
11.	Transportation	TR-1	\$3,87
12	Treatment and Disposal	TD-1	\$68,97
13.	User Defined Cost	UD-1	\$
14.	Subtotal of Closure Costs		\$89,90
15.	Engineering Expenses Percent Applied 10.00 %		\$8,99
16.	Certification of Closure	TS-09	\$3,64
17.	Subtotal		\$102,53
18.	Contingency Allowance Percent Applied 20.00 %		\$20,50
19.	Landfill Closure (Cover Installation)	CI-2	9
TC	OTAL COST OF CLOSURE (Rounded to \$120,00	0)	\$123,04

Tank Systems includes Tanks 1 and 3, the Decontamination Water Collection Sump, the Storm Water Collection Sump, and the secondary containment for the new treatment area.

REMOVAL OF WASTE - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1 Form Sequence: 1

TOTA	AL COST OF REMOVAL OF WASTE FROM TAN		
4	Number of hours required to remove waste from tank and ancillary piping	3.0 work hrs	
3	Work rate required to remove waste from tank and ancillary piping	0.00017 work hr/ gal capacity	
2	Labor and equipment cost per work hour Appropriate level of PPE	\$115.16 /work hr Protection Level D	
1	Maximum volume of waste to be removed from the tank and ancillary piping	15,435 gal	

EXCAVATION, DISASSEMBLY, AND LOADING - Page 1 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1

Form Sequence: 1

0.110.14	ame: TANKS LAND 3	Unit Sequence: 1	Form Sequence: 1		
1 EXCA	EXCAVATION AND LOADING (FOR IN-GROUND AND UNDERGROUND TANKS ONLY)				
1.A	Capacity of tank	0 gal			
1.B	Labor and equipment cost per work hour	\$0.00 /work hr			
	Appropriate level of PPE	Protection Level D	e A		
1.C	Work rate required to excavate and load tank per gallon capacity	0.00220 work hr/ gal capacity			
1.D	Number of hours required to excavate and load tank	0.0 work hrs			
1.E	Cost to Excavate and Load Tank		\$0		
2 DISA	SSEMBLY OF ANCILLARY PIPING				
2.A	Length of ancillary piping to be disassembled	936.0 ft			
2.B	Labor and equipment cost per work hour	\$46.55 /work hr			
	Appropriate level of PPE	Protection Level D			
2.C	Work rate required to disassemble one ft of pipe	0.15000 work hr/ft			
2.D	Number of hours required to disassemble ancilary piping	140.5 work hrs			
2.E	Cost of Disassembly of Ancillary Piping		\$6,540		

EXCAVATION, DISASSEMBLY, AND LOADING - Page 2 of 2

Facility Name: KW PLASTICS OF CALIFORNIA Facility Sequence: 1 07/27/2007

Unit Name: TANKS 1 AND 3 Unit Sequence: 1

3.A	Capacity of tank	14,031 gal	
0./\	Capacity of tank	14,001 gai	
3.B	Labor and equipment cost per work hour	\$50.66 /work hr	
	Appropriate level of PPE	Protection Level D	
3.C	Work rate required to load tank per gallon capacity	0.00110 work hr/ gal capacity	
3.D	Number of hours required to load tank	15.5 work hrs	and the second s
3.E	Cost to Load Tank		\$

CERTIFICATION OF CLOSURE - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1 Form Sequence: 1

		• • • • • • • • • • • • • • • • • • • •		
1	Number of units requiring certification of closure	1		
2	Cost of certification of closure per unit	\$3,640	en e	
тот	AL COST OF CERTIFICATION OF CLOSURE			\$3,640

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1

	SUMMARY WORKSHEET					
	Activity	Worksheet Number	Cost			
1.	Decontamination of Unit by Steam Cleaning or Pressure Washing	DC-2	\$8,782			
2.	Decontamination of Unit by Sandblasting	DC-3	\$0			
3.	Decontamination of Heavy Equipment	DC-4	\$447			
то	TOTAL COST OF DECONTAMINATION					

DECONTAMINATION OF UNIT BY STEAM CLEANING OR PRESSURE WASHING - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1

Form Sequence: 1

1	Area of unit to be decontaminated	5,317.3 ft ²	
2	Labor and equipment cost per work hour	\$41.23 /work hr	
	Appropriate level of PPE	Protection Level D	
3	Work rate to steam clean or pressure wash one ft ²	0.04000 work hr/ ft ²	
4	Number of hours required to steam clean or pressure wash the unit	213.0 work hrs	
5	Subtotal of labor and equipment costs to de steam cleaning or pressure washing	\$8,782	
6	Volume of decontamination fluid generated	21,269 gal	
7	Number of drums required to contain decontamination fluid for removal	0 drums	
8	Cost of one drum	\$62.05 /drum	Security of the security of th
9	Cost of drums needed to contain decontam	\$0	
	AL COST OF DECONTAMINATION OF UNIT PRESSURE WASHING	\$8,782	

User selected BULK for holding decontamination fluid

DECONTAMINATION OF HEAVY EQUIPMENT - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA Facility Sequence: 1 07/27/2007

Unit Name: TANKS 1 AND 3 Unit Sequence: 1 Form Sequence: 1

<u> </u>	tallo: TAINO TAIDO	Offic Ocquerios:	i i omi ocquenoc. i
1	Number of hours needed to decontaminate all heavy equipment	10 work hrs	
2	Cost of steam cleaner rental per hour	\$8.89 /hr	is a superior superio
3	Subtotal of steam cleaner rental costs		\$89
4	Labor cost per work hour Appropriate level of PPE	\$35.75 /work hr Protection Level D	
5	Subtotal of labor costs		\$358
6	Volume of decontamination fluid	1,000 gal	
7	Number of drums required to contain decontamination fluid for removal	0 drums	
8	Cost of one drum	\$62.05 /drum	
9	Cost of drums needed to contain decontam	nination fluid	\$0
10	Cost of construction of temporary decontar equipment.	\$0	
11	Cost of demolition of temporary decontamine equipment.	\$0	
тот	TAL COST OF DECONTAMINATION OF HEAV	VY EQUIPMENT	\$447

User selected BULK for holding decontamination fluid

INVENTORY - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3 Unit Sequence: 1

1 NUM	1 NUMBER OF DRILLING AND SUBSURFACE SOIL SAMPLES					
1	Number of Drilling and Subsurface Soil Samples	0 samples				
2 NUI	2 NUMBER OF CONCRETE CORE SAMPLES					
2	Number of Concrete Core Samples	0 samples				
3 NU	MBER OF WIPE SAMPLE LOCATIONS					
3	Number of Wipe Sample Locations	0 sample locations				
4 NU	MBER OF SURFACE WATER AND LIQUID SAMPLE LOCATION	ons				
4	Number of Surface Water and Liquid Sample Locations	3 sample locations				
5 NU	IMBER OF SOIL, SLUDGE, AND SEDIMENT SAMPLE LOCAT	TIONS				
5	Number of Soil, Sludge, and Sediment Sample Locations	0 sample locations				
6 NI	JMBER OF GROUNDWATER SAMPLE LOCATIONS					
6	Number of Groundwater Sample Locations	0 sample locations				
7 N	UMBER OF LYSIMETERS TO BE SAMPLED					
7	Number of Lysimeters to be Sampled	0 lysimeters				

SAMPLING AND ANALYSIS

Facility Name: KW PLASTICS OF CALIFORNIA

Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Sequence: 1

Form Sequence: 1

	SUMMARY WORKSHEET				
Activity Worksheet Number					
1.	Drilling and Subsurface Soil Sample	SA-3	\$		
2.	Concrete Core Sample	SA-4			
3.	Wipe Sample	SA-5			
4.	Surface Water and Liquid Sample	SA-6	\$16		
5.	Soil, Sludge, and Sediment Sample	SA-7			
6.	Groundwater Sample	SA-8			
7.	Soil-Pore Liquid Sample	SA-9			
8.	Analysis of Subsurface Soil Sample	SA-10			

SURFACE WATER AND LIQUID SAMPLE - Page 1 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1

Form Sequence: 1

nber of sampling locations or and equipment cost per work hour propriate level of PPE rk rate to collect samples from a sampling location mber of hours required to collect all nples set of Collection per Sampling Event	3 sample locations \$91.88 /work hr Protection Level D 0.500 work hr /location 1.5 work hrs	
rk rate to collect samples from sampling location mber of hours required to collect all nples	Protection Level D 0.500 work hr /location	
sampling location mber of hours required to collect all nples	/location	
nples	1.5 work hrs	
at of Collection nor Compling Event		
st of Collection per Sampling Event		\$138 /eve
OF SURFACE WATER AND LIQUID SA	AMPLE	
		\$30 /ev
S EVENTS		
ımber of sampling events	1 events	
	of SURFACE WATER AND LIQUID So of Analysis per Sampling Event stal from next page) G EVENTS umber of sampling events OST OF SAMPLING AND ANALYSIS OF	G EVENTS umber of sampling events 1 events

SURFACE WATER AND LIQUID SAMPLE ATTACHMENT- Page 2 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1

Cost of Analysis per Sampling Event Reference for Line 2.A

Column 1 Analytical Parameter and Method Reference	Column 2 Cost of Analysis (\$)	Column 3 Number of Analyses, including QC	Column 4 Total Cost of Analysis (\$) per Parameter per Event		
and method neterence	per Parameter	Analyses			
Lead	\$10.00	3	\$30.00		
 œ}	\$0.00	0	\$0.00		
·	Ì				
œ}	\$0.00	0	\$0.00		
œ}	\$0.00	0	\$0.00		
ω,					
œ}	\$0.00	0	\$0.00		
	\$0.00	0	\$0.00		
œ}	φυ.υυ	J	φυ.ου		
TOTAL COST FOR ANALYSIS OF SURFACE WATER AN	TOTAL COST FOR ANALYSIS OF SURFACE WATER AND LIQUID SAMPLES \$30 /event				

TRANSPORTATION OF WASTE- Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA Facility Sequence: 1 07/30/2007

Unit Name: TANKS 1 AND 3 Unit Sequence: 1 Form Sequence: 1

OIIIL Na	anie: TANKS TAND 3	Onit Sequence: 1	Form Sequence.
TRANS	SPORTATION OF WASTE IN DRUMS		
1.A	Number of drums of waste	0 drums	
1.B	Number of truckloads needed to transport waste in drums (80 drums per truckload)	0 truckloads	
1.C	Type of Waste Hazardous 300 miles at \$3.15 /mile		
1.D	Cost to transport one truckload of 55-gallon drums	\$945 /truckload	
1.E	Cost to Transport Waste in Drums		\$0
eren i kasarikan			
2 TRAN	SPORTATION OF BULK LIQUIDS	the state of the s	
2.A	Gallons of liquid waste	15,435 gal	
2.B	Number of truckloads needed to transport bulk free liquid waste (6,900 gallons per truckload)	3 truckloads	
2.C	Type of Waste Hazardous		
	300 miles at \$4.30 /mile		
2.D	Cost to transport one truckload of bulk liquids	\$1,290 /truckload	annes en la calendar de la calendar
2.E	Cost to Transport Bulk Liquid Waste		\$3,87
3 TRAI	NSPORTATION OF BULK WASTE		
3.A	Number of waste debris boxes	0 debris boxes	
3.B	Number of truckloads needed to transport bulk waste (one debris box per truckload)	0 truckloads	
3.C	Type of Waste Hazardous 300 miles at \$3.15 /mile		
3.D	Cost to transport one truckload of bulk waste 250 miles	\$945 /truckload	
3.E	Cost to Transport Bulk Waste		
	AL COST OF TRANSPORTATION OF WAST		\$3,8

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1

	SUMMARY WORKSHEET				
	Activity	Worksheet Number	Cost		
1.	Treatment and Disposal of Waste	TD-2	\$42,053		
2.	Transportation and Disposal of Decontamination Fluids	TD-3	\$26,918		
TO	TAL COST OF TREATMENT AND DISPOSAL		\$68,971		

TREATMENT AND DISPOSAL- Page 1 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1

Form Sequence: 1

1 TREA	TMENT AND DISPOSAL OF WASTE 1		
1.A	Volume in yd ³ of waste to be treated and disposed of	76.4 yd ³	
1.B	Density of waste	1,685.8 lb/yd ³	
1.C	Amount in tons of waste to be treated and disposed of	64.4 tons	
1.D	Treatment and disposal cost per ton	\$653.00 /ton	
1.E	Cost to Treat and Dispose of Waste 1		\$42,053
700 P			
2 TREA	ATMENT AND DISPOSAL OF WASTE 2 0	**************************************	
2.A	Volume in yd ³ of waste to be treated and disposed of	0.0 yd ³	
2.B	Density of waste	1,685.8 lb/yd ³	
2.C	Amount in tons of waste to be treated and disposed of	0.0 tons	
2.D	Treatment and disposal cost per ton	\$0.00 /ton	
2.E	Cost to Treat and Dispose of Waste 2		\$0

Facility Name: KW PLASTICS OF CALIFORNIA

TREATMENT AND DISPOSAL- Page 2 of 2

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 1 AND 3

Unit Sequence: 1

Form Sequence: 1

Ome.	taile. TAITE TAITE 5	Onit Sequence.	Torri Sequenc	.c. i
TREAT	MENT AND DISPOSAL OF WASTE 3 0			
3.A	Volume in yd ³ of waste to be treated and diposed of	0.0 yd ³		in antita i a
3.B	Density of waste	1,685.8 lb/yd ³		
3.C	Amount in tons of waste to be treated and disposed of	0.0 tons		
3.D	Treatment and disposal cost per ton	\$0.00 /ton	Extensión de la companya de la comp	
3.E	Cost to Treat and Dispose of Waste 3			\$0
		The service and the service an		
4 TREA	TMENT AND DISPOSAL OF WASTE 4			
4.A	Volume in yd ³ of waste to be treated and diposed of	0.0 yd ³		
4.B	Density of waste	1,685.8 lb/yd ³		
4.C	Amount in tons of waste to be treated and disposed of	0.0 tons		
4.D	Treatment and disposal cost per ton	\$0.00 /ton		
4.E	Cost to Treat and Dispose of Waste 4			\$0

Waste 1 includes tank and piping contents of Tanks 1, 3, Decontamination Water Collection Sump, and Storm Water Collection Sump.

TRANSPORTATION AND DISPOSAL OF DECONTAMINATION FLUIDS- Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA Facility Sequence: 1 07/27/2007

Unit Name: TANKS 1 AND 3 Unit Sequence: 1 Form Sequence: 1

1	Volume of decontamination fluid		
	generated from closure activities	22,269 total gal	
2	Labor and equipment cost per work hour	\$48.19 /work hr	\$
	Appropriate level of PPE	Protection Level D	
3	Work rate to pump decontamination fluid to a holding tank	0.00007 work hrs/ gallon	
4	Number of hours required to pump decontamination fluid to a holding tank	2 work hrs	
5	Subtotal of labor and equipment costs to pur fluid to a holding tank	\$96	
6	Number of days required to rent holding tank	1 days	
7	Holding tank rental fee (10,000 gal tank per day)	\$330 /day	
8	Number of tanks required	3 tanks	er of the second
9	Subtotal of tank rental costs		\$990
10	Transportation and disposal costs for bulk li	iquid \$1.16 /gal	\$25,832
	AL COST TO TRANSPORT AND DISPOSE OF D AS A BULK LIQUID	DECONTAMINATION	\$26,918

INVENTORY - Page 1 of 3

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2 Form Sequence: 1

1 UNIT	DESCRIPTION AND MAXIMUM PERMITTED (CAPACITY	
1.A	Type of tank system	aboveground	
1.B	Height or length of tank	O ft	
1.C	Diameter of tank	0 ft	
1.D	Maximum permitted capacity of the tank	13,623 gal	
1.E	Total length of ancillary piping	910.0 ft	
1.F	Nominal size of ancillary piping	6.00 in	
1.G	Maximum capacity of ancillary piping		1,365 gal
1.H	Maximum capacity of tank and ancillary pipin	g	14,988 gal
2 SURI	FACE AREA OF TANK SYSTEM		
2	Surface area of tank	1,220.6 ft ²	

INVENTORY - Page 2 of 3

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2

3 VOLUI	ME OF TANK SYSTEM TO BE REMOVED		
3.A	Volume of Tank System to be Removed		1,821.3 ft ³
3.B	Volume of Tank System to be Removed in yd	3	67.5 yd ³
4 SURF	ACE AREA OF SECONDARY CONTAINMENT SY	YSTEM	
4.A	Length	0.0 ft	
4.B	Width	0.0 ft	en de la composition della com
4.C	Surface Area of Secondary Containment Syst	tem Pad	0.0 ft ²
4.D	Surface Area of Secondary Containment System Pad in yd ²		0.0 yd ²
5 VOLU	IME OF SECONDARY CONTAINMENT SYSTEM		
5.A	Thickness	0.00 ft	
5.B	Volume of Secondary Containment Pad		0.0 yd ³
6 SURF	FACE AREA OF SECONDARY CONTAINMENT S	YSTEM BERM	
6.A	Total Length	0.0 ft	
6.B	Height	0.00 f	
6.C	Surface Area of Secondary Containment Sys	stem Berm	0.0 ft ²
6.D	Surface Area of Secondary Containment Sys	stem Berm in yd ²	0.0 yď

INVENTORY - Page 3 of 3

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2

7 VOLUI	7 VOLUME OF SECONDARY CONTAINMENT SYSTEM BERM				
7.A	Thickness	0.00 ft			
7.B	Volume of Secondary Containment System Be	erm		0.0 yd ³	
8 SURF	ACE AREA OF OTHER STRUCTURES IN SECON	IDARY CONTAINMENT	SYSTEM		
8.A	Surface Area of Other Structures	:		0.0 ft ²	
8.B	Surface Area of Other Structures in yd ²			0.0 yd ²	
9 VOLU	ME OF OTHER STRUCTURES IN SECONDARY	CONTAINMENT SYSTE	EM		
9	Volume of Other Structures			0.0 yd ³	
ender 1 de			J.Anga.		
10 VOLU	JME OF CONTAMINATED SOIL TO BE REMOVE	D			
10.A	Length	0.0 ft			
10.B	Width	0.0ft			
10.C	Depth	0.00 ft		والمراسمية المعاملة	
10.D	Volume of Contaminated Soil to be Removed			0.0 ft ³	
10.E	Volume of Contaminated Soil to be Removed	l in yd ³		0.0 yd ³	

Secondary containment considerations are accounted for in Calculations for Unit [Tanks 1 and 3] and Unit 4 [Tanks 9 and 10].

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2

	Activity	Worksheet Number	Cost
1.	Removal of Waste	TS-3	\$345
2.	Tank System Purging (ignitable wastes only)	TS-4	\$0
3.	Flushing the Tank and Piping	TS-5	\$0
4.	Excavation, Disassembly, and Loading	TS-6	\$7,114
5.	Demolition and Removal of Containment System	TS-7	\$0
6.	Removal of Soil	TS-8	\$0
7.	Backfill and Grading	BF-1	\$(
8.	Decontamination	DC-1	\$4,48
9.	Sampling and Analysis	SA-2	\$16
10.	Monitoring Well Installation	MW-1	\$
11.	Transportation	TR-1	\$3,87
12.	Treatment and Disposal	TD-1	\$54,00
13.	User Defined Cost	UD-1	\$
14.	Subtotal of Closure Costs		\$69,99
15.	Engineering Expenses Percent Applied 10.00 %		\$6,99
16.	Certification of Closure	TS-09	\$3,64
17.	Subtotal		\$80,6
18.	Contingency Allowance Percent Applied 20.00 %)	\$16,12
19.	Landfill Closure (Cover Installation)	CI-2	:

Includes Tanks 2, 4, 5, 6, 7, and 8. Secondary containment is not included, but is included with Unit 1 [Tanks 1 and 3] and Unit 4 [Tanks 9 and 10].

REMOVAL OF WASTE - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2 Form Sequence: 1

TOTA PIPIN	L COST OF REMOVAL OF WASTE FROM TAI	NK AND ANCILLARY \$3	45
4	Number of hours required to remove waste from tank and ancillary piping	3.0 work hrs	e e e e e e e e e e e e e e e e e e e
3	Work rate required to remove waste from tank and ancillary piping	0.00017 work hr/ gal capacity	
2	Labor and equipment cost per work hour Appropriate level of PPE	\$115.16 /work hr Protection Level D	
1	Maximum volume of waste to be removed from the tank and ancillary piping	14,988 gal	

EXCAVATION, DISASSEMBLY, AND LOADING - Page 1 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2 Form Sequence: 1

	VATION AND LOADING (FOR IN-GROUND A	ND LINDERGROUND TA	NKS ONI Y)	
1.A	Capacity of tank	0 gal	MKS ONET	
1.B	Labor and equipment cost per work hour	\$0.00 /work hr		
	Appropriate level of PPE	Protection Level D		
1.C	Work rate required to excavate and load tank per gallon capacity	0.00220 work hr/ gal capacity		
1.D	Number of hours required to excavate and load tank	0.0 work hrs		
1.E	Cost to Excavate and Load Tank			\$0
All real real				
2 DISA	SSEMBLY OF ANCILLARY PIPING			
2.A	Length of ancillary piping to be disassembled	910.0 ft		
2.B	Labor and equipment cost per work hour	\$46.55 /work hr		
	Appropriate level of PPE	Protection Level D		
2.C	Work rate required to disassemble one ft of pipe	0.15000 work hr/ft		
2.D	Number of hours required to disassemble ancilary piping	136.5 work hrs		er i siri ya wa
2.E	Cost of Disassembly of Ancillary Piping			\$6,354

EXCAVATION, DISASSEMBLY, AND LOADING - Page 2 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2

3.E	Cost to Load Tank			\$
3.D	Number of hours required to load tank	15.0 work hrs	S. S. Santa and S. Santa	See
3.C	Work rate required to load tank per gallon capacity	0.00110 work hr/ gal capacity		
3.B	Labor and equipment cost per work hour Appropriate level of PPE	\$50.66 /work hr Protection Level D		
3. A	Capacity of tank	13,623 gal		

CERTIFICATION OF CLOSURE - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2 Form Sequence: 1

	, , , , , ,		
1	Number of units requiring certification of closure	1	
2	Cost of certification of closure per unit	\$3,640	
тот	AL COST OF CERTIFICATION OF CLOSURE		\$3,640

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2

SUMMARY WORKSHEET			
	Activity	Worksheet Number	Cost
1.	Decontamination of Unit by Steam Cleaning or Pressure Washing	DC-2	\$4,041
2.	Decontamination of Unit by Sandblasting	DC-3	\$0
3.	Decontamination of Heavy Equipment	DC-4	\$447
TO.	TAL COST OF DECONTAMINATION		\$4,488

DECONTAMINATION OF UNIT BY STEAM CLEANING OR PRESSURE WASHING - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2 Form Sequence: 1

	taille: 1741110 2, 4, 0, 0, 1, 0	Offic Ocquerioc: 2	
1	Area of unit to be decontaminated	2,441.2 ft ²	
2	Labor and equipment cost per work hour	\$41.23 /work hr	
L	Appropriate level of PPE	Protection Level D	
3	Work rate to steam clean or pressure wash one ft ²	0.04000 work hr/ ft ²	
4	Number of hours required to steam clean or pressure wash the unit	98.0 work hrs	
5	Subtotal of labor and equipment costs to decontaminate unit by steam cleaning or pressure washing		\$4,041
6	Volume of decontamination fluid generated	9,765 gal	
7	Number of drums required to contain decontamination fluid for removal	0 drums	
8	Cost of one drum	\$62.05 /drum	
9	Cost of drums needed to contain decontamination fluid		\$0
	AL COST OF DECONTAMINATION OF UNIT PRESSURE WASHING	\$4,041	

User selected BULK for holding decontamination fluid

DECONTAMINATION OF HEAVY EQUIPMENT - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA Facility Sequence: 1 07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2 Form Sequence: 1

T01	TAL COST OF DECONTAMINATION OF HEAV	W FOUIDMENT	\$447
11	Cost of demolition of temporary decontamine equipment.	nation area for heavy	\$0
10	Cost of construction of temporary decontamination area for heavy equipment.		\$0
9	Cost of drums needed to contain decontamination fluid		\$0
8	Cost of one drum	\$62.05 /drum	
7	Number of drums required to contain decontamination fluid for removal	0 drums	
6	Volume of decontamination fluid	1,000 gal	
5	Subtotal of labor costs		\$358
	Appropriate level of PPE	Protection Level D	y La companya di santangga di s
4	Labor cost per work hour	\$35.75 /work hr	
3	Subtotal of steam cleaner rental costs		\$89
2	Cost of steam cleaner rental per hour	\$8.89 /hr	
1	Number of hours needed to decontaminate all heavy equipment	10 work hrs	
			province and the contract of t

User selected BULK for holding decontamination fluid

INVENTORY - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8 Unit Sequence: 2

1 NUI	MBER OF DRILLING AND SUBSURFACE SOIL SAMPLES				
1	Number of Drilling and Subsurface Soil Samples	0 samples			
4		<u> </u>			
2 NU	MBER OF CONCRETE CORE SAMPLES				
2	Number of Concrete Core Samples	0 samples			
3 NU	MBER OF WIPE SAMPLE LOCATIONS				
3	Number of Wipe Sample Locations	0 sample locations			
The state of the s					
4 NU	MBER OF SURFACE WATER AND LIQUID SAMPLE LOCATION	ONS			
4	Number of Surface Water and Liquid Sample Locations	3 sample locations			
5 NI	JMBER OF SOIL, SLUDGE, AND SEDIMENT SAMPLE LOCAT	IONS			
5	Number of Soil, Sludge, and Sediment Sample Locations	0 sample locations			
The formation with					
6 N	UMBER OF GROUNDWATER SAMPLE LOCATIONS				
6	Number of Groundwater Sample Locations	0 sample locations			
Mary Dynorecki Link					
7 N	7 NUMBER OF LYSIMETERS TO BE SAMPLED				
7	Number of Lysimeters to be Sampled	0 lysimeters			

Facility Name: KW PLASTICS OF CALIFORNIA

Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Sequence: 2

Form Sequence: 1

	Activity	Worksheet Number	Cost
1.	Drilling and Subsurface Soil Sample	SA-3	
2.	Concrete Core Sample	SA-4	
3.	Wipe Sample	SA-5	
4.	Surface Water and Liquid Sample	SA-6	\$1
5.	Soil, Sludge, and Sediment Sample	SA-7	
6.	Groundwater Sample	SA-8	
7.	Soil-Pore Liquid Sample	SA-9	
8.	Analysis of Subsurface Soil Sample	SA-10	

SURFACE WATER AND LIQUID SAMPLE - Page 1 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2

Form Sequence: 1

1 COLLE	ECTION OF SURFACE WATER AND LIQUID	SAMPLES	
1.A	Number of sampling locations	3 sample locations	
1.B	Labor and equipment cost per work hour Appropriate level of PPE	\$91.88 /work hr	
1.C	Work rate to collect samples from one sampling location	0.500 work hr /location	
1.D	Number of hours required to collect all samples	1.5 work hrs	
1.E	Cost of Collection per Sampling Event		\$138 /event
Panel's season			
2 ANA	LYSIS OF SURFACE WATER AND LIQUID SA	AMPLE	
2	Cost of Analysis per Sampling Event (total from next page)		\$30 /event
3 SAM	PLING EVENTS		
3	Number of sampling events	1 events	
	AL COST OF SAMPLING AND ANALYSIS OF	\$168	

SAMPLING AND ANALYSIS

SURFACE WATER AND LIQUID SAMPLE ATTACHMENT- Page 2 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2

Cost of Analysis per Sampling Event Reference for Line 2.A

Column 1 Analytical Parameter and Method Reference	Column 2 Cost of Analysis (\$) per Parameter	Column 3 Number of Analyses, including QC Analyses	Column 4 Total Cost of Analysis (\$) per Parameter per Event
lead	\$10.00	3	\$30.00
œ}	\$0.00	О	\$0.00
œ}	\$0.00	o	\$0.00
œ}	\$0.00	0	\$0.00
œ}	\$0.00	0	\$0.00
œ}	\$0.00	0	\$0.00
TOTAL COST FOR ANALYSIS OF SURFACE WATER	AND LIQUID SAMPL	ES	\$30 /event

TRANSPORTATION OF WASTE- Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2

Form Sequence: 1

	anic. TARRO 2, 4, 0, 0, 7, 0		
1 TRANS	SPORTATION OF WASTE IN DRUMS		
1.A	Number of drums of waste	0 drums	
1.B	Number of truckloads needed to transport waste in drums (80 drums per truckload)	0 truckloads	
1.C	Type of Waste Hazardous 300 miles at \$3.15 /mile		
1.D	Cost to transport one truckload of 55-gallon drums	\$945 /truckload	
1.E	Cost to Transport Waste in Drums		\$0
2 TRAN	ISPORTATION OF BULK LIQUIDS		
2.A	Gallons of liquid waste	14,988 gal	
2.B	Number of truckloads needed to transport bulk free liquid waste (6,900 gallons per truckload)	3 truckloads	
2.C	Type of Waste Hazardous		
	300 miles at \$4.30 /mile		
2.D	Cost to transport one truckload of bulk liquids	\$1,290 /truckload	en e
2.E	Cost to Transport Bulk Liquid Waste		\$3,870
in the second se			
3 TRA	NSPORTATION OF BULK WASTE		
3.A	Number of waste debris boxes	0 debris boxes	
3.B	Number of truckloads needed to transport bulk waste (one debris box per truckload)	0 truckloads	
3.C	Type of Waste Hazardous 300 miles at \$3.15 /mile		
3.D	Cost to transport one truckload of bulk waste 250 miles	\$945 /truckload	
3.E	Cost to Transport Bulk Waste		\$
ТОТ	TAL COST OF TRANSPORTATION OF WAST	ΓE	\$3,87
L			

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2

SUMMARY WORKSHEET			
	Activity	Worksheet Number	Cost
1.	Treatment and Disposal of Waste	TD-2	\$40,813
2.	Transportation and Disposal of Decontamination Fluids	TD-3	\$13,195
то	TAL COST OF TREATMENT AND DISPOSAL		\$54,008

TREATMENT AND DISPOSAL- Page 1 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2

Form Sequence: 1

1 TREA	TMENT AND DISPOSAL OF WASTE 1 Tank	Piping Com		
1.A	Volume in yd ³ of waste to be treated and disposed of	74.2 yd ³		
1.B	Density of waste	1,685.8 lb/yd ³		
1.C	Amount in tons of waste to be treated and disposed of	62.5 tons		
1.D	Treatment and disposal cost per ton	\$653.00 /ton		
1.E	Cost to Treat and Dispose of Waste 1			\$40,813
STATE OF THE STATE				
2 TREA	ATMENT AND DISPOSAL OF WASTE 2			
2.A	Volume in yd ³ of waste to be treated and disposed of	0.0 yd ³		
2.B	Density of waste	1,685.8 lb/yd ³	to state out of the	
2.C	Amount in tons of waste to be treated and disposed of	0.0 tons	A report of the second of the	
2.D	Treatment and disposal cost per ton	\$0.00 /ton		
2.E	Cost to Treat and Dispose of Waste 2			\$0

TREATMENT AND DISPOSAL- Page 2 of 2

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2 Form Sequence: 1

3 TREA	TMENT AND DISPOSAL OF WASTE 3		
3.A	Volume in yd ³ of waste to be treated and diposed of	0.0 yd ³	
3.B	Density of waste	1,685.8 lb/yd ³	
3.C	Amount in tons of waste to be treated and disposed of	0.0 tons	
3.D	Treatment and disposal cost per ton	\$0.00 /ton	
3.E	Cost to Treat and Dispose of Waste 3		\$0
		A STATE OF THE PARTY OF THE PAR	<u> </u>
4 TREA	ATMENT AND DISPOSAL OF WASTE 4	The second secon	and the second s
4 TREA	Volume in yd ³ of waste to be treated and diposed of	0.0 yd ³	
	Volume in yd ³ of waste to be treated and	0.0 yd ³ 1,685.8 lb/yd ³	
4.A	Volume in yd ³ of waste to be treated and diposed of		
4.A 4.B	Volume in yd ³ of waste to be treated and diposed of Density of waste Amount in tons of waste to be treated and	1,685.8 lb/yd ³	
4.A 4.B 4.C	Volume in yd ³ of waste to be treated and diposed of Density of waste Amount in tons of waste to be treated and disposed of	1,685.8 lb/yd ³ 0.0 tons	\$0

TRANSPORTATION AND DISPOSAL OF DECONTAMINATION FLUIDS- Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA Facility Sequence: 1 07/27/2007

Unit Name: TANKS 2, 4, 5, 6, 7, 8

Unit Sequence: 2 Form Sequence: 1

		<u>-</u>	
1	Volume of decontamination fluid generated from closure activities	10,765 total gal	
2	Labor and equipment cost per work hour Appropriate level of PPE	\$48.19 /work hr Protection Level D	
3	Work rate to pump decontamination fluid to a holding tank	0.00007 work hrs/ gallon	
4	Number of hours required to pump decontamination fluid to a holding tank	1 work hrs	
5	Subtotal of labor and equipment costs to pum fluid to a holding tank	np decontamination	\$4
6	Number of days required to rent holding tank	1 days	
7	Holding tank rental fee (10,000 gal tank per day)	\$330 /day	
8	Number of tanks required	2 tanks	
9	Subtotal of tank rental costs		\$660
10	Transportation and disposal costs for bulk liq	quid \$1.16 /gal	\$12,487

INVENTORY - Page 1 of 3

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3 Form Sequence: 1

1.A	Type of tank system	aboveground	
1.B	Height or length of tank	0 ft	
1.C	Diameter of tank	O ft	
1.D	Maximum permitted capacity of the tank	15,600 gal	
1.E	Total length of ancillary piping	1,040.0 ft	
1.F	Nominal size of ancillary piping	6.00 in	
1.G	Maximum capacity of ancillary piping		1,560 ga
1.H	Maximum capacity of tank and ancillary pipir	g	17,160 ga
2 SUR	FACE AREA OF TANK SYSTEM		
2	Surface area of tank	1,237.8 ft ²	

INVENTORY - Page 2 of 3

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3

3 VOLUM	ME OF TANK SYSTEM TO BE REMOVED		
3.A	Volume of Tank System to be Removed		2,085.6 ft ³
3.B	B Volume of Tank System to be Removed in yd ³		77.2 yd ³
4 SURFA	ACE AREA OF SECONDARY CONTAINMENT SY	/STEM	
4.A	Length	57.0 ft	
4.B	Width	41.5 ft	
4.C	Surface Area of Secondary Containment Syst	tem Pad	2,365.5 ft ²
4.D	Surface Area of Secondary Containment Sys	tem Pad in yd ²	262.8 yd ²
5 VOLU	ME OF SECONDARY CONTAINMENT SYSTEM		
5. A	Thickness	0.75 ft	
5.B	Volume of Secondary Containment Pad		65.7 yd ³
6 SURF	ACE AREA OF SECONDARY CONTAINMENT S	YSTEM BERM	
6.A	Total Length	141.0 f	t į
6.B	Height	0.67	t
6.C	Surface Area of Secondary Containment Sys	stem Berm	94.5 ft ²
6.D	Surface Area of Secondary Containment Sys	stem Berm in yd ²	10.5 yd²

INVENTORY - Page 3 of 3

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10 Unit Sequence: 3

- 			
ME OF SECONDARY CONTAINMENT SYSTEM	BERM		
Thickness	0.00 ft		
Volume of Secondary Containment System E	Berm		0.0 yd ³
ACE AREA OF OTHER STRUCTURES IN SECO	NDARY CONTAINMENT	SYSTEM	
Surface Area of Other Structures			176.5 ft ²
Surface Area of Other Structures in yd ²			19.6 yd ²
	and the second of the second o		
ME OF OTHER STRUCTURES IN SECONDARY	CONTAINMENT SYSTE	M	
Volume of Other Structures			3.5 yd ³
			17 12 and 18
IME OF CONTAMINATED SOIL TO BE REMOV	ED		
Length	0.0 ft	Company of the compan	
Width	0.0 ft	Table of control	
Depth	0.00 ft	The second	
Volume of Contaminated Soil to be Remove	d		0.0 ft ³
Volume of Contaminated Soil to be Remove	ed in yd ³		0.0 yd ³
	Thickness Volume of Secondary Containment System E ACE AREA OF OTHER STRUCTURES IN SECO Surface Area of Other Structures Surface Area of Other Structures in yd ² ME OF OTHER STRUCTURES IN SECONDARY Volume of Other Structures ME OF CONTAMINATED SOIL TO BE REMOVE Length Width Depth Volume of Contaminated Soil to be Remove	Volume of Secondary Containment System Berm ACE AREA OF OTHER STRUCTURES IN SECONDARY CONTAINMENT Surface Area of Other Structures Surface Area of Other Structures in yd² ME OF OTHER STRUCTURES IN SECONDARY CONTAINMENT SYSTE Volume of Other Structures ME OF CONTAMINATED SOIL TO BE REMOVED Length 0.0ft Width	Thickness 0.00 ft Volume of Secondary Containment System Berm ACE AREA OF OTHER STRUCTURES IN SECONDARY CONTAINMENT SYSTEM Surface Area of Other Structures Surface Area of Other Structures in yd² ME OF OTHER STRUCTURES IN SECONDARY CONTAINMENT SYSTEM Volume of Other Structures ME OF CONTAMINATED SOIL TO BE REMOVED Length 0.0 ft Width 0.0 ft Depth 0.00 ft Volume of Contaminated Soil to be Removed

Tanks 8 and 9 include secondary containment in existing treatment area.

Facility Name: KW PLASTICS OF CALIFORNIA Facility Sequence: 1 07/27/2007

Unit Name: TANKS 9 AND 10 Unit Sequence: 3

SUMMARY WORKSHEET Worksheet Cost **Activity** Number Removal of Waste TS-3 \$345 1. \$0 2. Tank System Purging (ignitable wastes only) TS-4 \$0 3. Flushing the Tank and Piping TS-5 \$8,149 4. Excavation, Disassembly, and Loading **TS-6** 5. Demolition and Removal of Containment System TS-7 \$0 \$0 6. Removal of Soil TS-8 \$0 7. **Backfill and Grading** BF-1 8. Decontamination DC-1 \$11,159 9. Sampling and Analysis SA-2 \$168 10. Monitoring Well Installation MW-1 \$0 Transportation TR-1 \$3,870 11. 12. Treatment and Disposal TD-1 \$72,203 13. **User Defined Cost** UD-1 \$0 **Subtotal of Closure Costs** 14. \$95,894 15. **Engineering Expenses** Percent Applied 10.00% \$9,589 Certification of Closure 16. TS-09 \$3,640 17. Subtotal \$109,123 20.00 % 18. Contingency Allowance Percent Applied \$21,825 19. Landfill Closure (Cover Installation) \$0 CI-2 **TOTAL COST OF CLOSURE** (Rounded to \$130,000) \$130,948

Includes Tanks 9 and 10, plus the secondary containment for the existing treatment area. Also includes heavy equipment used in closure.

REMOVAL OF WASTE - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3 Form Sequence: 1

4 	Number of hours required to remove waste from tank and ancillary piping AL COST OF REMOVAL OF WASTE FROM TAN	3.0 work hrs	
3	Work rate required to remove waste from tank and ancillary piping	0.00017 work hr/ gal capacity	
2	Labor and equipment cost per work hour Appropriate level of PPE	\$115.16 /work hr Protection Level D	
1	Maximum volume of waste to be removed from the tank and ancillary piping	17,160 gal	

EXCAVATION, DISASSEMBLY, AND LOADING - Page 1 of 2

Facility Name: KW PLASTICS OF CALIFORNIA Facility Sequence: 1 07/27/2007

Unit Name: TANKS 9 AND 10 Unit Sequence: 3 Form Sequence: 1

		omit Sequence: 5	romi sequence.
1 EXCA	VATION AND LOADING (FOR IN-GROUND A	ND UNDERGROUND TA	NKS ONLY)
1.A	Capacity of tank	0 gal	
1.B	Labor and equipment cost per work hour	\$0.00 /work hr	
	Appropriate level of PPE	Protection Level D	
1.C	Work rate required to excavate and load tank per gallon capacity	0.00220 work hr/ gal capacity	
1.D	Number of hours required to excavate and load tank	0.0 work hrs	
1.E	Cost to Excavate and Load Tank		\$0
* reconstant			
2 DISA	SSEMBLY OF ANCILLARY PIPING		
2.A	Length of ancillary piping to be disassembled	1,040.0 ft	
2.B	Labor and equipment cost per work hour	\$46.55 /work hr	
	Appropriate level of PPE	Protection Level D	
2.C	Work rate required to disassemble one ft of pipe	0.15000 work hr/ft	
2.D	Number of hours required to disassemble ancilary piping	156.0 work hrs	
2.E	Cost of Disassembly of Ancillary Piping		\$7,262

EXCAVATION, DISASSEMBLY, AND LOADING - Page 2 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3

3.B	Labor and equipment cost per work hour Appropriate level of PPE	\$50.66 /work hr Protection Level D	
3.C	Work rate required to load tank per gallon capacity	0.00110 work hr/ gal capacity	
3.D	Number of hours required to load tank	17.5 work hrs	
3.E	Cost to Load Tank	,	\$8

CERTIFICATION OF CLOSURE - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3 Form Sequence: 1

1	Number of units requiring certification of closure	1	
2	Cost of certification of closure per unit	\$3,640	
то	TAL COST OF CERTIFICATION OF CLOSURE		\$3,640

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3

	SUMMARY WORKSH	HEET	
	Activity	Worksheet Number	Cost
1.	Decontamination of Unit by Steam Cleaning or Pressure Washing	DC-2	\$8,432
2.	Decontamination of Unit by Sandblasting	DC-3	\$0
3.	Decontamination of Heavy Equipment	DC-4	\$2,727
то	TAL COST OF DECONTAMINATION		\$11,159

DECONTAMINATION OF UNIT BY STEAM CLEANING OR PRESSURE WASHING - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA Facility Sequence: 1 07/27/2007

Unit Name: TANKS 9 AND 10 Unit Sequence: 3 Form Sequence: 1

1	Area of unit to be decontaminated	5,105.6 ft ²	27.1 The second
2	Labor and equipment cost per work hour	\$41.23 /work hr	
	Appropriate level of PPE	Protection Level D	
3	Work rate to steam clean or pressure wash one ft ²	0.04000 work hr/ ft ²	
4	Number of hours required to steam clean or pressure wash the unit	204.5 work hrs	
5	Subtotal of labor and equipment costs to deco	ontaminate unit by	\$8,432
6	Volume of decontamination fluid generated	20,422 gal	
7	Number of drums required to contain decontamination fluid for removal	0 drums	
8	Cost of one drum	\$62.05 /drum	
9	Cost of drums needed to contain decontamin	ation fluid	\$0
	TAL COST OF DECONTAMINATION OF UNIT B PRESSURE WASHING	Y STEAM CLEANING	\$8,432

User selected BULK for holding decontamination fluid

DECONTAMINATION OF HEAVY EQUIPMENT - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3 Form Sequence: 1

Unit N	iame: TANKS 9 AND 10	Unit Sequence: 3	Form Sequence: 1
1	Number of hours needed to decontaminate all heavy equipment	6 work hrs	
2	Cost of steam cleaner rental per hour	\$8.89 /hr	andre de la companya
3	Subtotal of steam cleaner rental costs		\$53
4	Labor cost per work hour Appropriate level of PPE	\$35.75 /work hr Protection Level D	
5	Subtotal of labor costs		\$215
6	Volume of decontamination fluid	600 gal	
7	Number of drums required to contain decontamination fluid for removal	0 drums	
8	Cost of one drum	\$62.05 /drum	
9	Cost of drums needed to contain decontami	ination fluid	\$0
10	Cost of construction of temporary decontam equipment.	Cost of construction of temporary decontamination area for heavy equipment.	
11	Cost of demolition of temporary decontamine equipment.	nation area for heavy	\$954
то ⁻	TAL COST OF DECONTAMINATION OF HEAV	/Y EQUIPMENT	\$2,727

User selected BULK for holding decontamination fluid

Assumed one front-end loader, one backhhoe, two forklifts, requiring 6 total hours of decontamination. The heavy equipment included in this unit is used for all units during closure.

INVENTORY - Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10 Unit Sequence: 3

1 NUI	MBER OF DRILLING AND SUBSURFACE SOIL SAMPLES	
1	Number of Drilling and Subsurface Soil Samples	0 samples
2 NU	MBER OF CONCRETE CORE SAMPLES	
2	Number of Concrete Core Samples	0 samples
3 NU	MBER OF WIPE SAMPLE LOCATIONS	
3	Number of Wipe Sample Locations	0 sample locations
4 NU	JMBER OF SURFACE WATER AND LIQUID SAMPLE LOCATION	NS
4	Number of Surface Water and Liquid Sample Locations	0 sample locations
5 N	UMBER OF SOIL, SLUDGE, AND SEDIMENT SAMPLE LOCATI	ONS
5	Number of Soil, Sludge, and Sediment Sample Locations	0 sample locations
Sec.		
6 N	UMBER OF GROUNDWATER SAMPLE LOCATIONS	
6	Number of Groundwater Sample Locations	0 sample locations
A Commence of the Commence of		
7 N	IUMBER OF LYSIMETERS TO BE SAMPLED	
7	Number of Lysimeters to be Sampled	0 lysimeters

Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Sequence: 3

Form Sequence: 1

SUMMARY WORKSHEET

	Activity	Worksheet Number	Cost
1.	Drilling and Subsurface Soil Sample	SA-3	\$0
2.	Concrete Core Sample	SA-4	\$0
3.	Wipe Sample	SA-5	\$0
4.	Surface Water and Liquid Sample	SA-6	\$168
5.	Soil, Sludge, and Sediment Sample	SA-7	\$0
6.	Groundwater Sample	SA-8	\$0
7.	Soil-Pore Liquid Sample	SA-9	\$0
8.	Analysis of Subsurface Soil Sample	SA-10	\$0
тот	AL SAMPLING AND ANALYSIS COST		\$168

SURFACE WATER AND LIQUID SAMPLE - Page 1 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3

Form Sequence: 1

1 COLLE	CTION OF SURFACE WATER AND LIQUID S	AMPLES	
1.A	Number of sampling locations	3 sample locations	
1.B	Labor and equipment cost per work hour Appropriate level of PPE	\$91.88 /work hr Protection Level D	
1.C	Work rate to collect samples from one sampling location	0.500 work hr /location	
1.D	Number of hours required to collect all samples	1.5 work hrs	
1.E	Cost of Collection per Sampling Event		\$138 /event
2 ANA	LYSIS OF SURFACE WATER AND LIQUID SA	AMPLE	
2	Cost of Analysis per Sampling Event (total from next page)		\$30 /even
3 SAN	IPLING EVENTS		
3	Number of sampling events	1 events	i.
	TAL COST OF SAMPLING AND ANALYSIS OF TER AND LIQUID SAMPLES	SURFACE	\$168

SURFACE WATER AND LIQUID SAMPLE ATTACHMENT- Page 2 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3

Cost of Analysis per Sampling Event Reference for Line 2.A

Column 1 Analytical Parameter and Method Reference	Column 2 Cost of Analysis (\$) per Parameter	Column 3 Number of Analyses, including QC Analyses	Column 4 Total Cost of Analysis (\$) per Parameter per Event
lead	\$10.00	3	\$30.00
œ}	\$0.00	0	\$0.00
œ}	\$0.00	0	\$0.00
œ}	\$0.00	0	\$0.00
œ}	\$0.00	0	\$0.00
œ}	\$0.00	0	\$0.00
TOTAL COST FOR ANALYSIS OF SURFACE WATER A	ND LIQUID SAMPI	LES	\$30 /event

TRANSPORTATION OF WASTE- Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3

Form Sequence: 1

Ome man		orint ocquerioe.	
TRANS	PORTATION OF WASTE IN DRUMS		
1.A	Number of drums of waste	0 drums	
1.B	Number of truckloads needed to transport waste in drums (80 drums per truckload)	0 truckloads	
1.C	Type of Waste Hazardous 300 miles at \$3.15 /mile		
	Cost to transport one truckload of 55-gallon drums	\$945 /truckload	
1.E	Cost to Transport Waste in Drums		\$0
2 TRAN	SPORTATION OF BULK LIQUIDS	and the state of t	
2.A	Gallons of liquid waste	17,160 gal	and the second s
2.B	Number of truckloads needed to transport bulk free liquid waste (6,900 gallons per truckload)	3 truckloads	
2.C	Type of Waste Hazardous 300 miles at \$4.30 /mile		
2.D	Cost to transport one truckload of bulk liquids	\$1,290 /truckload	
2.E	Cost to Transport Bulk Liquid Waste		\$3,87
3 TRA	NSPORTATION OF BULK WASTE		
3.A	Number of waste debris boxes	0 debris boxes	
3.B	Number of truckloads needed to transport bulk waste (one debris box per truckload)	0 truckloads	
3.C	Type of Waste Hazardous 300 miles at \$3.15 /mile		
3.D		\$945 /truckload	
3.E	Cost to Transport Bulk Waste		
TO	TAL COST OF TRANSPORTATION OF WAS	TC	\$3,8

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3

	SUMMARY WORK	SHEET	
	Activity	Worksheet Number	Cost
1.	Treatment and Disposal of Waste	TD-2	\$46,755
2.	Transportation and Disposal of Decontamination Fluids	TD-3	\$25,448
TO	TAL COST OF TREATMENT AND DISPOSAL		\$72,203

TREATMENT AND DISPOSAL- Page 1 of 2

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3

Form Sequence: 1

1 TREA	TMENT AND DISPOSAL OF WASTE 1 Tank/F	Piping Con	
1.A	Volume in yd ³ of waste to be treated and disposed of	85.0 yd ³	
1.B	Density of waste	1,685.8 lb/yd ³	
1.C	Amount in tons of waste to be treated and disposed of	71.6 tons	
1.D	Treatment and disposal cost per ton	\$653.00 /ton	e de la companya de l La companya de la co
1.E	Cost to Treat and Dispose of Waste 1		\$46,755
2 TRE	ATMENT AND DISPOSAL OF WASTE 2		
2.A	Volume in yd ³ of waste to be treated and disposed of	0.0 yd ³	
			(
2.B	Density of waste	1,685.8 lb/yd ³	
2.B 2.C	Density of waste Amount in tons of waste to be treated and disposed of	1,685.8 lb/yd ³ 0.0 tons	
	Amount in tons of waste to be treated and		

TREATMENT AND DISPOSAL- Page 2 of 2

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3 Form Sequence: 1

	iame: TANKS 9 AND 10	Unit Sequence: 3	Form Sequence.
TREAT	MENT AND DISPOSAL OF WASTE 3		
3.A	Volume in yd ³ of waste to be treated and diposed of	0.0 yd ³	
3.B	Density of waste	1,685.8 lb/yd ³	
3.C	Amount in tons of waste to be treated and disposed of	0.0 tons	
3.D	Treatment and disposal cost per ton	\$0.00 /ton	
3.E	Cost to Treat and Dispose of Waste 3		\$0
4 TREA	ATMENT AND DISPOSAL OF WASTE 4		
	MENT AND DISPOSAL OF WASTE 4		
4.A	Volume in yd ³ of waste to be treated and diposed of	0.0 yd ³	
	Volume in yd ³ of waste to be treated and	0.0 yd ³ 1,685.8 lb/yd ³	
4.A	Volume in yd ³ of waste to be treated and diposed of		
4.A 4.B	Volume in yd ³ of waste to be treated and diposed of Density of waste Amount in tons of waste to be treated and	1,685.8 lb/yd ³	
4.A 4.B 4.C	Volume in yd ³ of waste to be treated and diposed of Density of waste Amount in tons of waste to be treated and disposed of	1,685.8 lb/yd ³ 0.0 tons	\$

TRANSPORTATION AND DISPOSAL OF DECONTAMINATION FLUIDS- Page 1 of 1

Facility Name: KW PLASTICS OF CALIFORNIA

Facility Sequence: 1

07/27/2007

Unit Name: TANKS 9 AND 10

Unit Sequence: 3 Form Sequence: 1

Unit name: TANKS 9 AND TU		Unit Sequence: 3	rom seq	uence. i
1	Volume of decontamination fluid generated from closure activities	21,022 total gal		
2	Labor and equipment cost per work hour	\$48.19 /work hr		
	Appropriate level of PPE	Protection Level D		
3	Work rate to pump decontamination fluid to a holding tank	0.00007 work hrs/ gallon		
4	Number of hours required to pump decontamination fluid to a holding tank	1 work hrs		
5	Subtotal of labor and equipment costs to pump decontamination fluid to a holding tank			\$72
6	Number of days required to rent holding tank	1 days		
7	Holding tank rental fee (10,000 gal tank per day)	\$330 /day		
8	Number of tanks required	3 tanks		and the same and the same
9	Subtotal of tank rental costs			\$990
10	Transportation and disposal costs for bulk liquid \$1.16 /gal			\$24,38
	AL COST TO TRANSPORT AND DISPOSE OF ID AS A BULK LIQUID	DECONTAMINATION		\$25,4